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JT/T 1269-2019

**Plate type rubber expansion device for highway bridge
(English Translation)**

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Foreword

This standard is in accordance with GB/T Draft the rules given in 1-2009.

This standard is proposed and managed by the National Technical Committee for Traffic Engineering Facilities (Highway) Standardization (SAC/TC 223).

This standard was drafted. Shanghai Urban Construction Design & Research Institute (Group) Co., Ltd., Shanghai Pengpu Rubber Products Co., Ltd., Tong University of Hong Kong, Hongrun Construction Group Co., Ltd.

Introduction

The issuer of this document draws attention to the fact that the declaration of compliance with this document may involve 4. 2 Structural form, 6. 1 General requirements and Appendix A Telescopic device series product installation dimensions and patent number QL.2014 2 673 343. 7 Patents related to "Road Bridge Noise Reduction Telescopic Device" use.

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JT/T 1269-2019

Highway bridge plate rubber telescopic device

1 Scope

This standard specifies the structural form, specifications and models, technical requirements, test methods, and inspection regulations of highway bridge plate rubber telescopic devices.

Regulations, and marking, packaging, transportation, and storage requirements.

This standard applies to the production, inspection and use of telescopic devices for bridges with a telescopic amount of 80mm to.200mm.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 528 Determination of tensile stress and strain properties of vulcanized rubber or thermoplastic rubber GB/T 985. 1 Recommended grooves for gas welding, electrode arc welding, gas shielded welding and high energy beam welding GB/T 1184 Shape and position tolerances without tolerance values GB 1495 Limits and measurement methods for noise outside the vehicle during acceleration GB/T 1591 Low-alloy high-strength structural steel GB/T 1682 Determination of low temperature brittleness of vulcanized rubber-Single specimen method GB/T 1689 Determination of abrasion resistance of vulcanized rubber (using Akron wear tester) GB/T 1690 Test method for liquid resistance of vulcanized rubber or thermoplastic rubber GB/T 1804 Tolerances for linear and angular dimensions without general tolerances GB/T 3512 Vulcanized rubber or thermoplastic rubber hot air accelerated aging and heat resistance test GB/T 3672. 1 Tolerances for rubber products Part 1. Tolerances on dimensions GB/T 3785. 1 Electroacoustic sound level meters Part 1.

Specifications GB/T 5782 Hex Head Bolts GB/T 6031 Determination of hardness of vulcanized rubber or thermoplastic rubber (10IRHD to 100IRHD) GB/T 7659 Castings for welded structures GB/T 7759. 1 Determination of compression set of vulcanized rubber or thermoplastic rubber Part 1. Under normal and high temperature conditions GB/T 7760 Determination of adhesion strength between vulcanized rubber or thermoplastic rubber and hard board 90 ° peel method GB/T 7762 Vulcanized rubber or thermoplastic rubber resistance to ozone cracking static tensile test GB/T 1145 Nondestructive Testing of Welds Ultrasonic Testing Technology, Test Grades and Evaluation GB/T 15089 Classification of motor vehicles and trailers GB/T 20688. 1 Rubber bearings Part 1. Test methods for vibration-isolated rubber bearings HG/T 3738 Solvent-based multipurpose neoprene adhesive JB/T 5943 General technical conditions for welding of construction machinery JT/T 327 General technical requirements for highway bridge telescopic devices JT/T 722 Technical requirements for anticorrosive coating of steel structures for highway bridges JT/T 842 High-damping isolation rubber bearings for highway bridges JT/T 1269-2019

3 Terms and definitions

The following terms and definitions apply to this document.

Plate bridge rubber telescopic device for highway bridges plate typex rubex exemplify forward foray bridge the corrugated rubber plate with high-wear rubber material of the tire pattern and the high-damping vibration-damping rubber support are adopted to reduce impact noise and vibration Telescopic device with vibration function.

Maximum Noise Level of Telescopic Device. maximum noise, lease, ofx, extension, device the maximum A-weighted noise level generated by the test vehicle when it passed the telescopic device at a constant speed of 60 km/h was 3 meters away from the centerline of the vehicle.

Noise level of the telescopic device, resequent, perforance, ofx, and extension the maximum noise level generated by a vehicle through a telescopic device is relative to the increase in the level of asphalt.

4 Classification, structure, specifications and models

4.1

Classification

Highway bridge plate rubber telescopic device is divided into.

- a) Normal temperature type. Applicable ambient temperature-25 °C ~ 60 °C, expressed by code C;
- b) Cold-resistant type. Applicable ambient temperature-40 °C ~ 60 °C, expressed by code F.

4.2

Structure

4. 2. 1. Highway bridge plate rubber telescopic device (hereinafter referred to as telescopic device) is composed of multiple standard segments and non-standard segments.

The section consists of side longitudinal steel beams, corrugated rubber plates (the surface layer is a tire pattern high wear-resistant rubber material), stiffened steel plates, support top steel plates, and high-damping rubber it consists of rubber support, anchor steel plate, positioning and fixing bolt, support bottom steel plate, anchor steel bar, section joint tightening screw and so on. Telescopic device structure shown Opinions Figure 1.

4.2.2

Standard segment length of the telescopic device 2m, stitching on site. Concave and convex grooves are set on the end faces of segment seams, and self-vulcanizing rubber is used.

The adhesive bond closes, and the joints are tightened and fixed by the joint tightening screw on both sides.

4.3

Specifications

See Table 1 for telescopic device specifications and Appendix A for installation dimensions of the series.

Table 1 Telescopic device specifications

model

Allowable telescopic amount (Mm) Beam spacing (Mm) Standard displacement (mm) Down the bridge Elongation amount Compression amount Yokohashi Vertical and horizontal corners (Rad) JJZ-80 80 145 45 35 35 ± 24 . 03 JJZ-120 120 120 210 50 50 ± 36 . 03 JJZ-160 160 270 90 70 ± 48 . 03 JJZ-2000.2000 3610 110 90 ± 600 . 03 JT/T 1269-2019 Explanation.

1 --- side longitudinal steel beams; 9 --- anchored steel bars;

2 --- corrugated rubber sheet (surface layer is made of tire pattern high wear-resistant rubber material); 10 --- segment seam tightening screw 3 --- stiffened steel plates; 11 --- embedded steel bars;

4 --- supporting the top steel plate; 12 --- concave and convex groove on the end face of the segment seam 5 --- high damping rubber support; 13 --- supporting steel pad;

6 --- anchor steel plate; 14 --- steel beam;

7 --- locating and fixing bolts; 15 --- concrete beam.